





A L I C E

lighthouse project

EPFL / ENAC / IA / ALICE
atelier de la conception de l'espace
spring semester 2008
dieter dietz, olivier otteavere, daniel pokora, isabella pasqualini, katia ritz, marc schmit



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the lighthouse project

The Lighthouse Project proposes a house. Named a House it had to address inhabitation: for whom was defined by each student.

Additionally the Lighthouse had to include a public function. Light was considered as an attractor and conductor of flows in the urban context and in relation with the activity of living. The public program acted as a pivotal part of the project, being the connecting part between city and habitation. The focus was set on the transitional aspects and spatial conditions between public and private and their changing appearances during different light conditions in time.

The semester was structured along a time axis. The 12 weeks of the semester were considered being a 24 hours cycle that evolves 2 hours per week. Thus the projects were traveling through a 24-hour journey from dawn to dawn.

dawn



LIGHT PERFORMANCE

In the first week, the studio prepared in groups of 2 a Light performance. The reference structure for this project was a matrix consisting of 12 cones having one common center. The outer shape of the matrix was a polyhedron with 12 faces. Every group was working on one of these cones, each one differing in orientation and inclination.



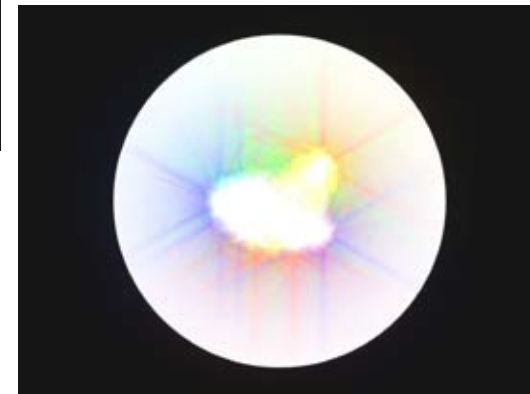
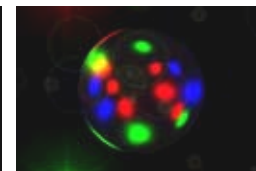
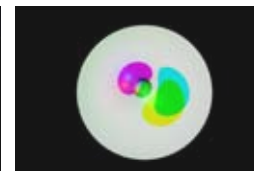
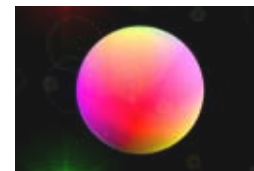
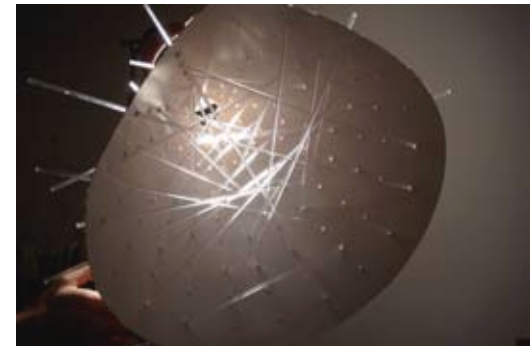
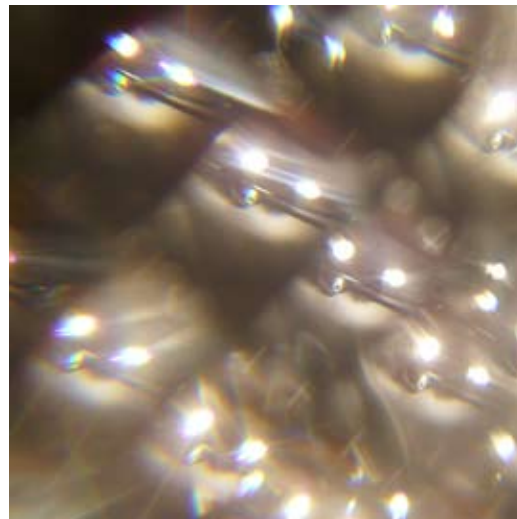


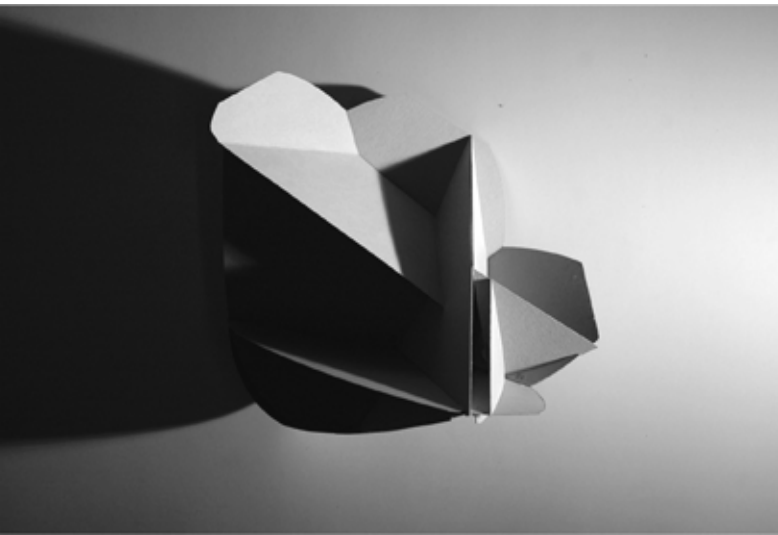
FROM TOP:
Lila Held
Sebastian Hefti



FROM TOP

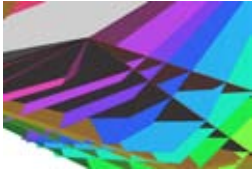
Philipp Jakob
Matthias Bellmann
Konstantinos Dell'Olivio
Mikael Monteserin/
Aurel Martin





Nicolas de Courten,
Patrick Meier

Thaddée Lucan,
Augusta Porok

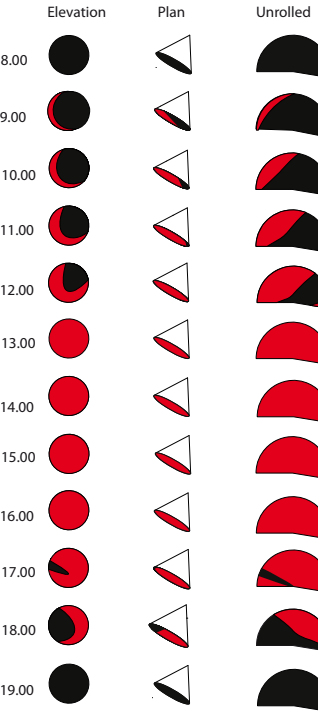


Light in an investigation of the
thresholds of visual perception

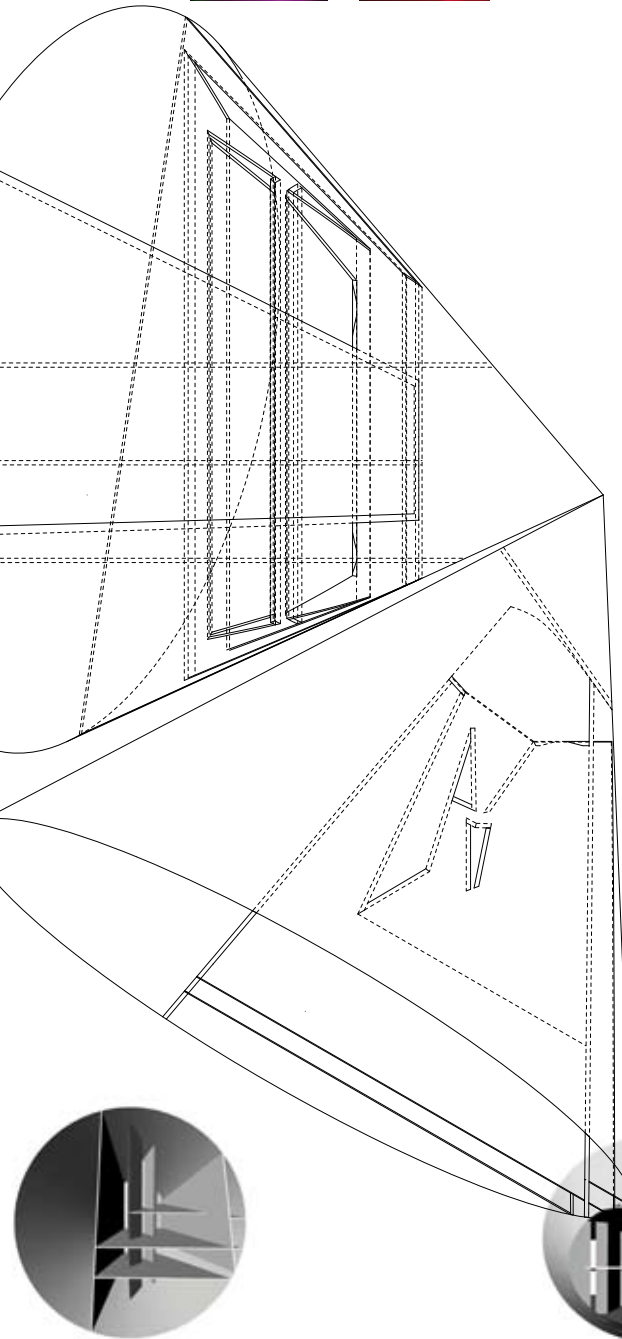
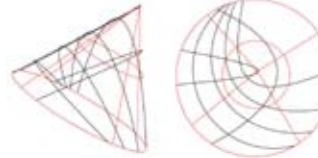
Axel Harari, Alexander Hertel



Light mapping - 26.05.08



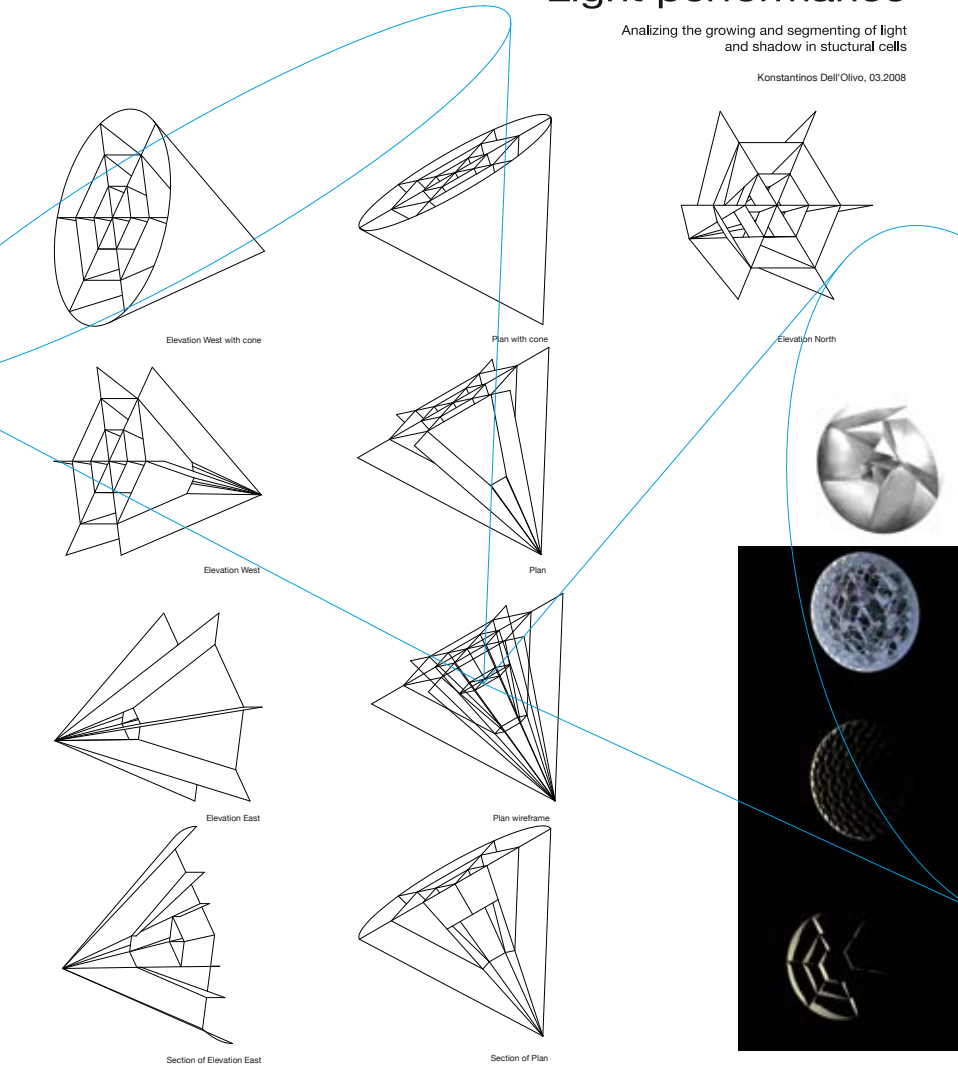
Wireframe mapping in cone



Light performance

Analyzing the growing and segmenting of light and shadow in structural cells

Konstantinos Dell'Olivio, 03.2008

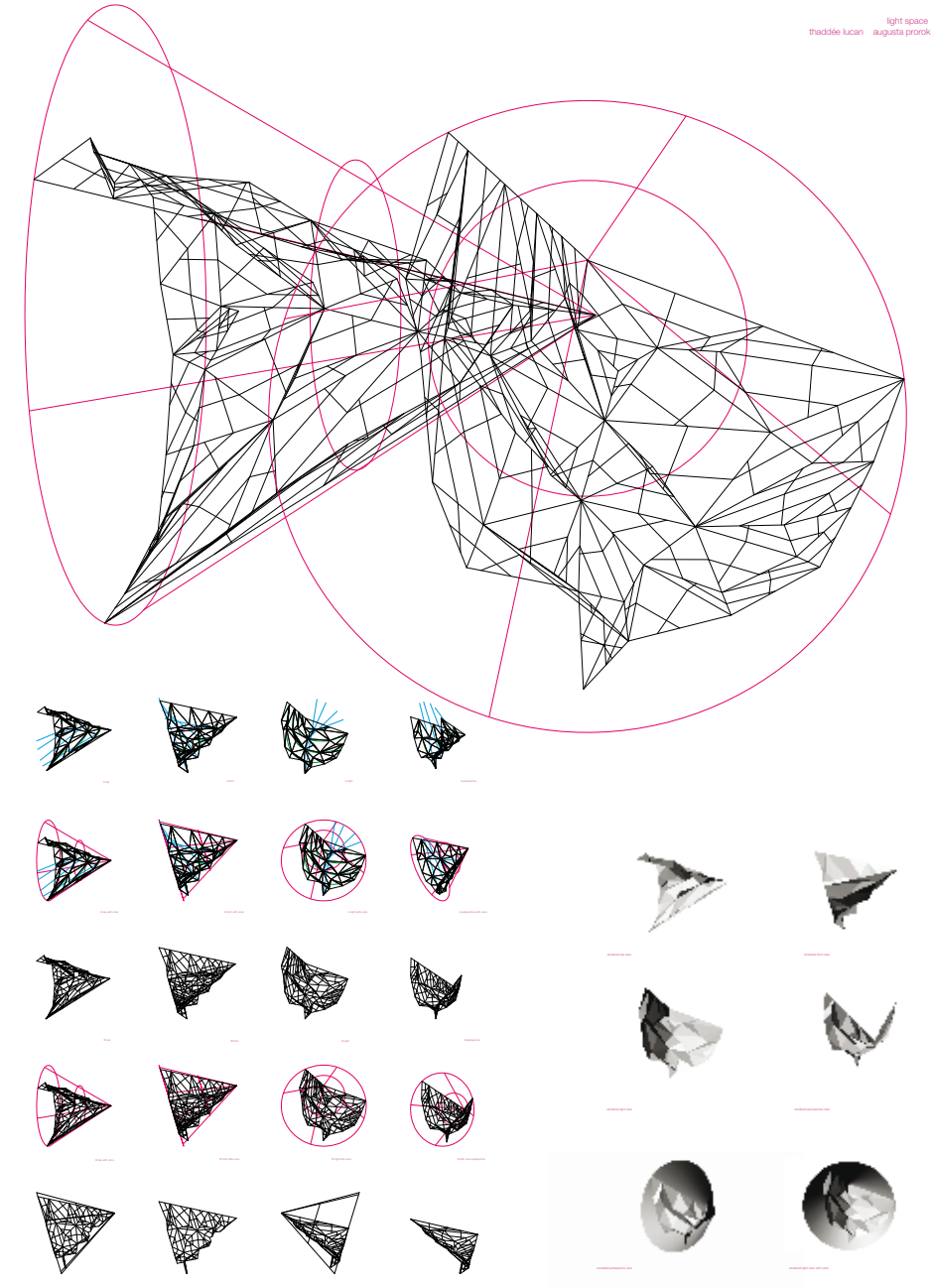


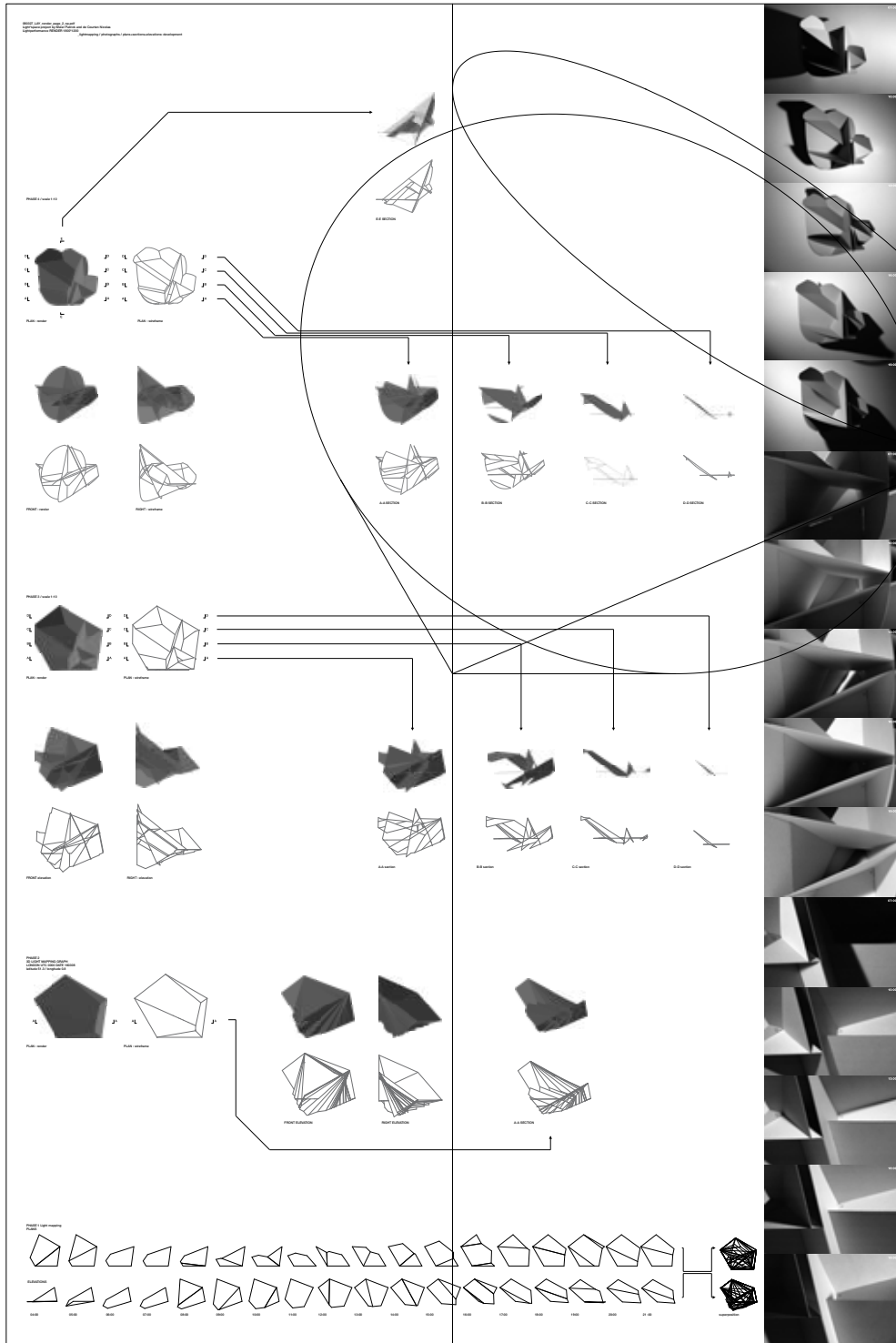
An analysis of growing and segmentation of light and shadow in structural cells

Konstantinos Dell'Olivio

In this project the joints of a triangulated structure are replaced through glaring light, thus reversing the expected relation of structure and joint.

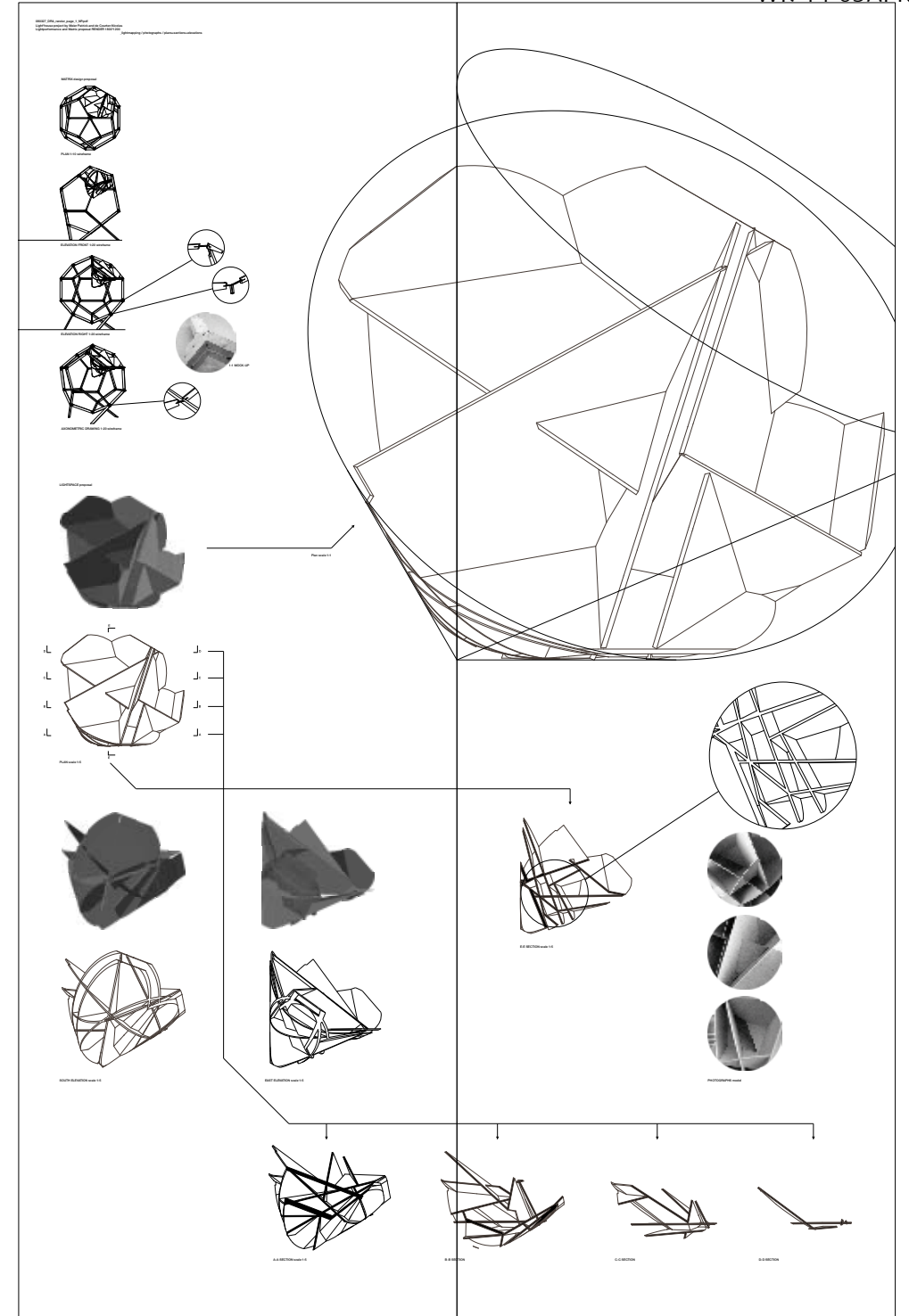
Thaddée Lucan,
Augusta Porok

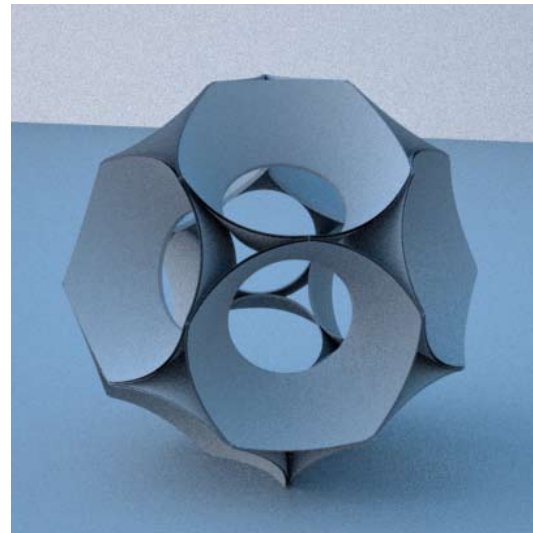
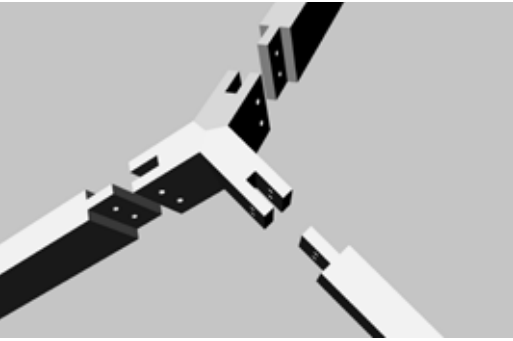




Light and shadow as means of
orientation and disorientation

Nicolas de Courten, Patrick
Meier



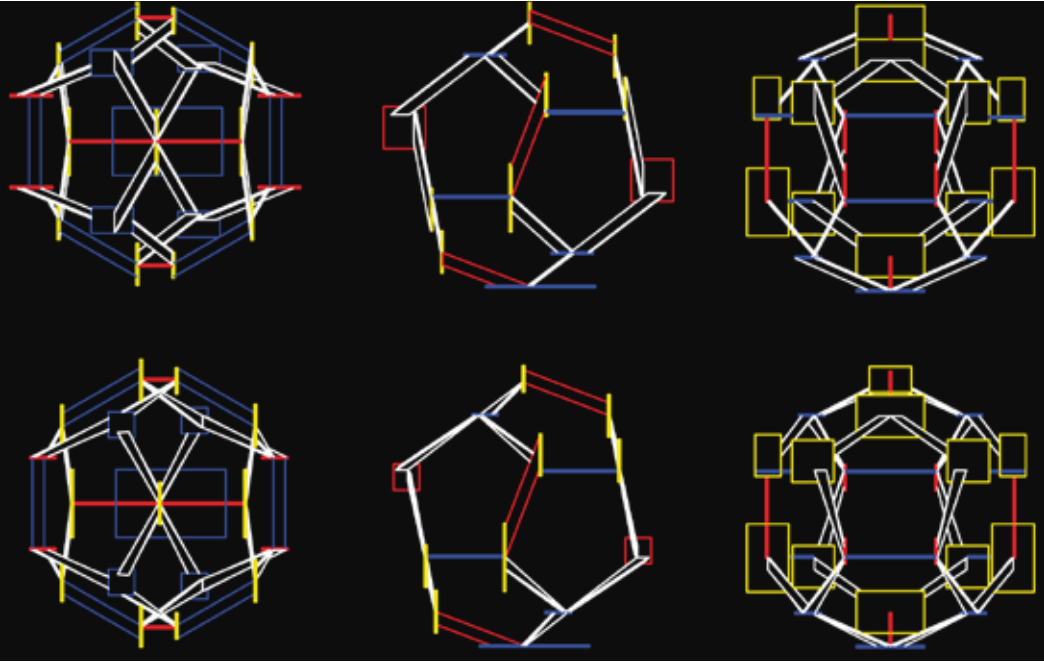


FROM TOP

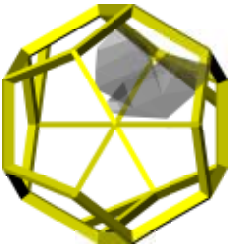
Nicolas de Courten, Patrick
Meier
Hefti Sebastian
Alexander Hertel

MATRIX

With the concept of Light performance each group also proposed a structure for the construction of the matrix. In the course of the first phase, one proposal was selected and built by the whole class. The individual projects were a negotiation between the group's concept of light as manifested in their physical construct and the matrix as a group setting.



080310_DRA_000000_000000_1_10_DECOURTEN_NICOLAS_A_MIDER_PATRICK.pdf



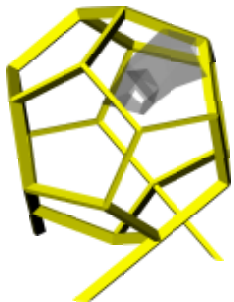
PLAN 1:10 RENDER



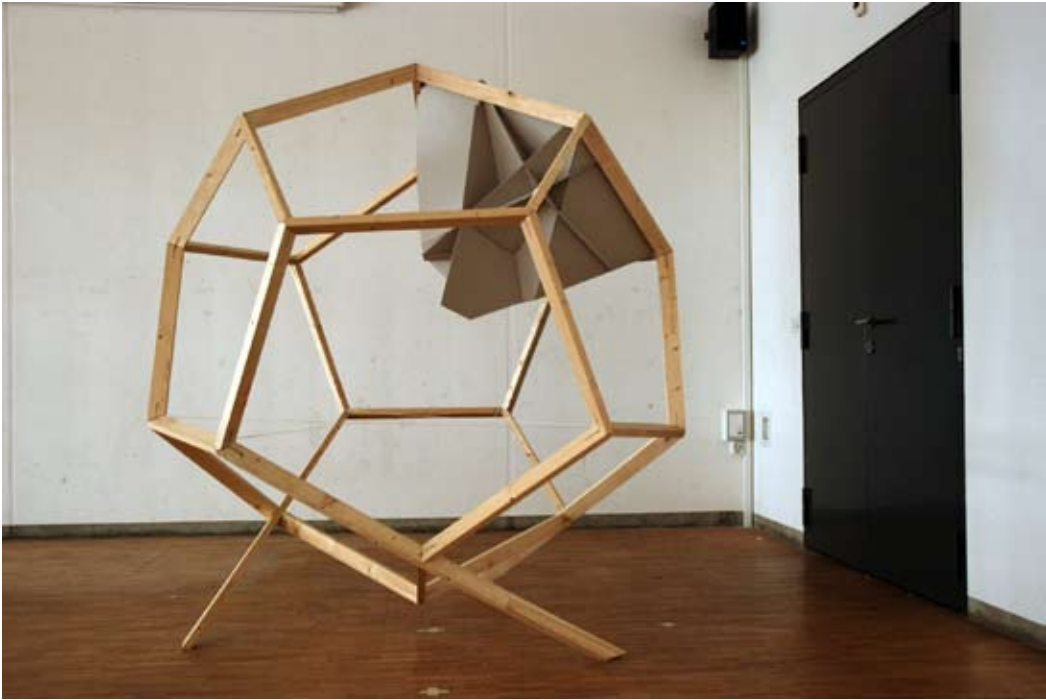
FRONT 1:10 RENDER



RIGHT 1:10 RENDER



AXONOMETRIC DRAWING 1:10 RENDER



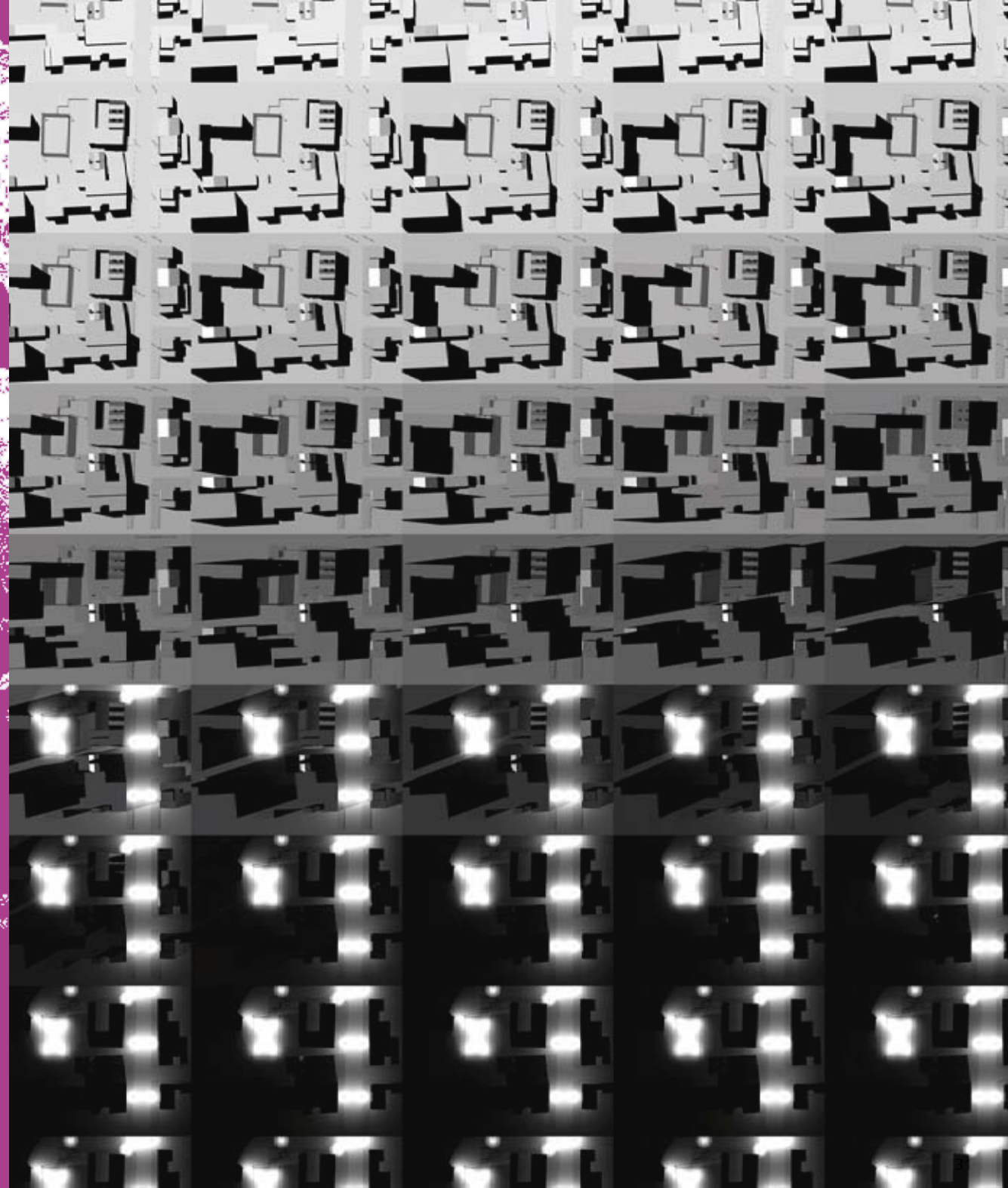
1:1 construction of the Matrix

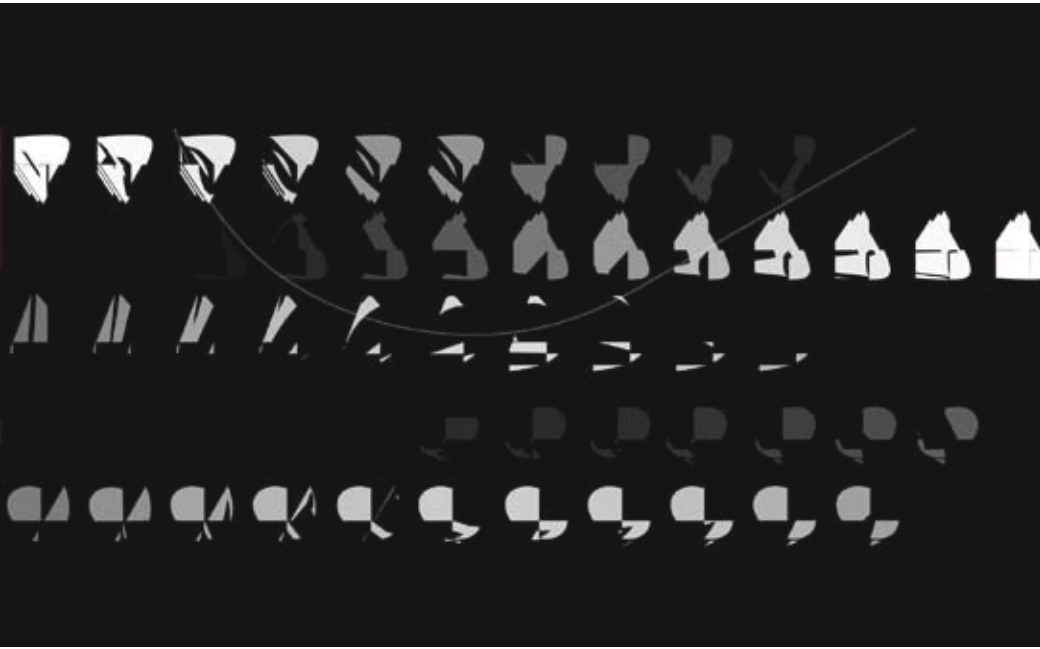


I'heure bleue

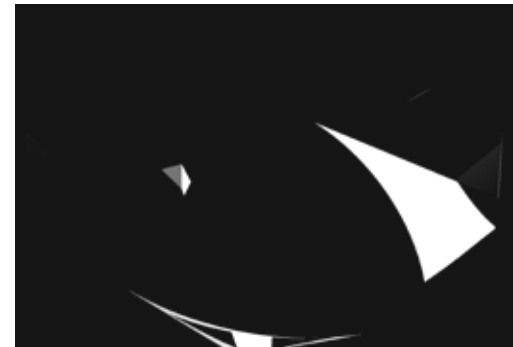
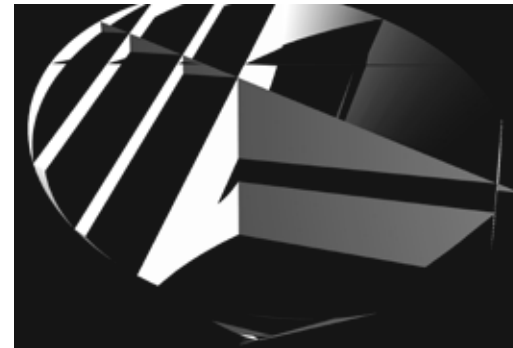
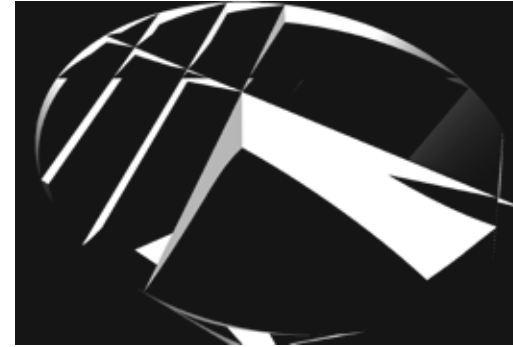
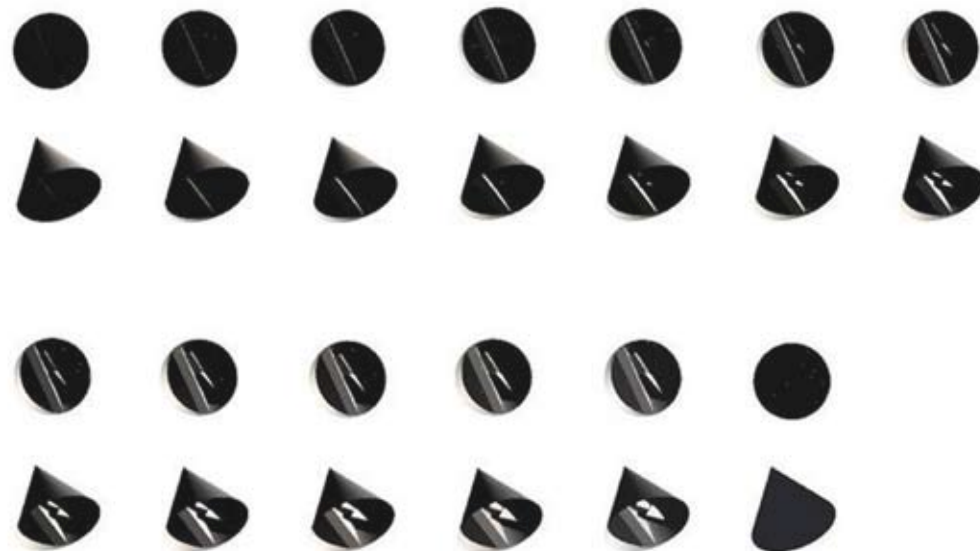
LIGHT MAPPING

In a second phase the studio reconsidered the light performance and its respective aspects of light and performance by mapping the light.





Lightmapping : 17h12 - 19h48
north view & facing the cone
Venice on 21st June 2008



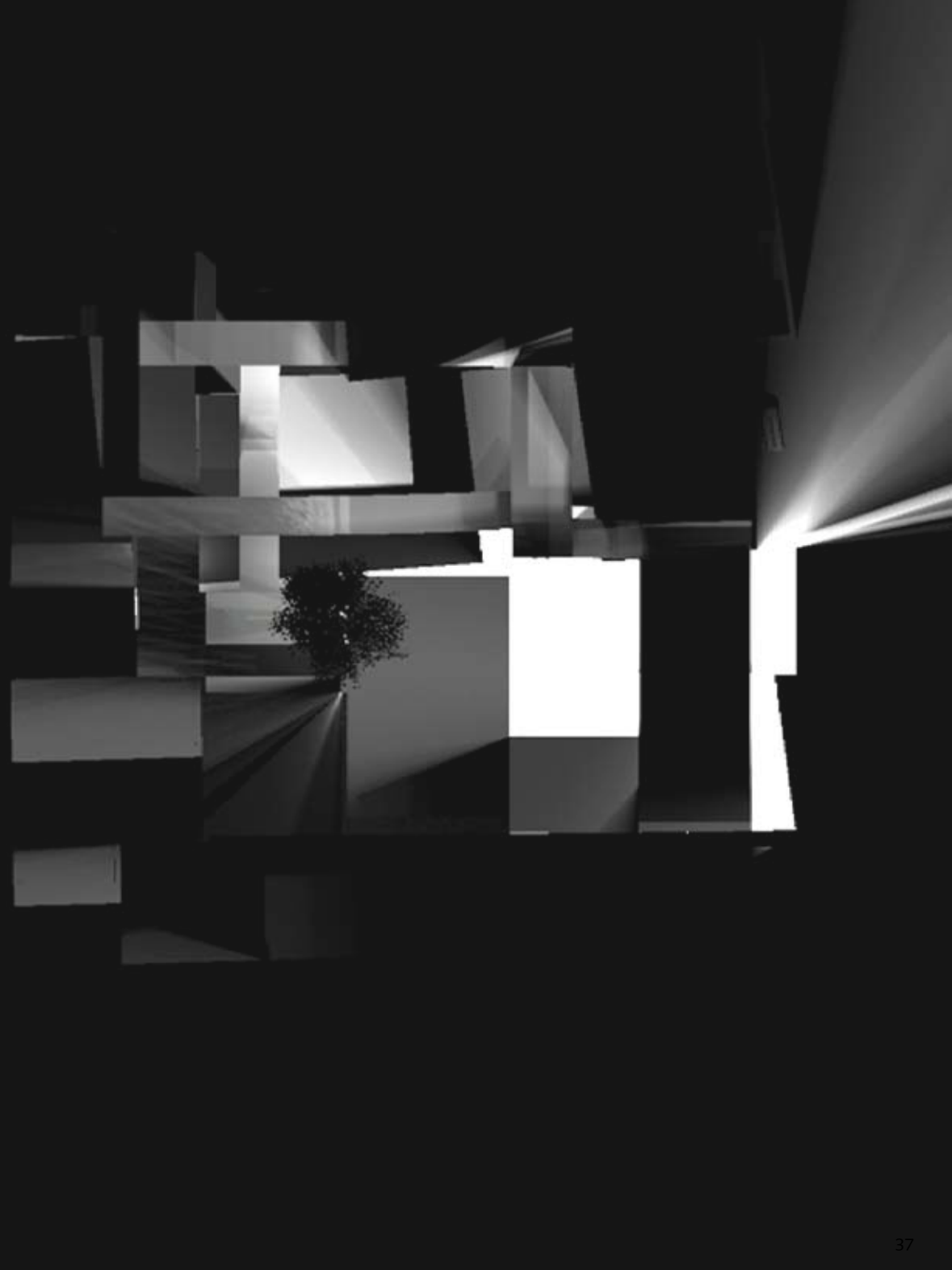
twilight



TWILIGHT

In a third phase a specific site in London was chosen by the students and a design proposal for the Lighthouse Project was developed.

The notions of light-space elaborated until then enabled to concentrate on neuralgic spots within the urban context regarding their light identity.





Shorditch exhibition center:
A project investigating on
light, orientation an depth.

Lila Held

Lighthouse

atelier alice
lila held
080430

a forest
Shorditch exhibition center
a space were light make us loose our notions
of orientation and deepth

private and public interaction
trought form and opening



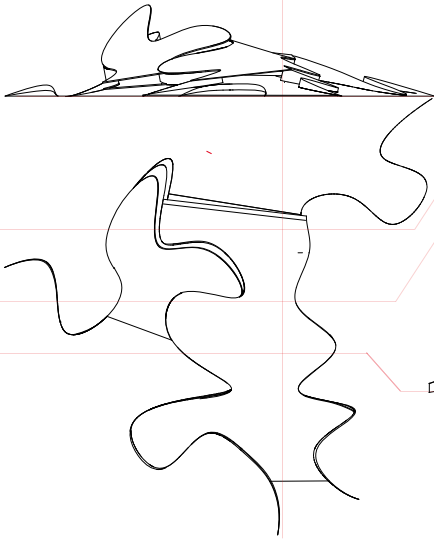
in section and plan

Indirect light is coming
from the private space to
change the perception of
the exhibition space
throughout the day.
The atelier has direct
light coming from the
roof.

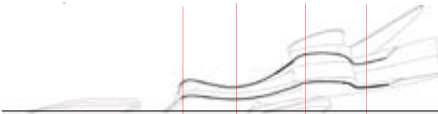
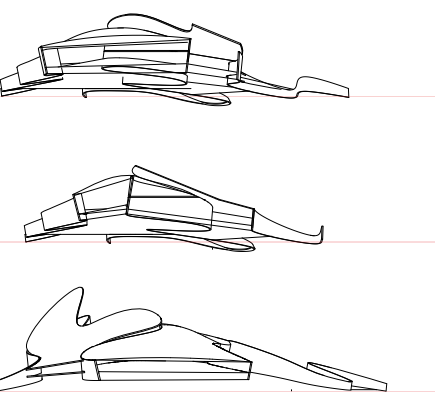
the opening between the
two space is the only ho-
rizontal line. from the
transition aera we can
seerought it so that
the atelier became part
of the exhibition.

the opening resume the
concept that light change
our vision of the real
space but has the key in
her form to find back our
orientation.

elevation and plan 1/33



sections 1/33



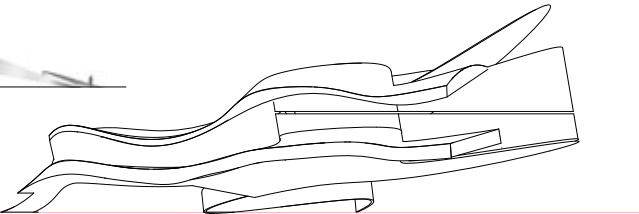
entrance exhibition transition exhibition2

light openings concept

curves in space

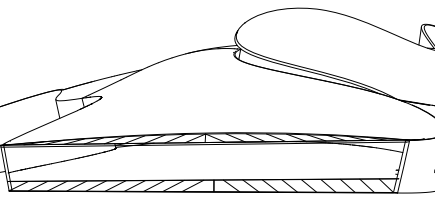
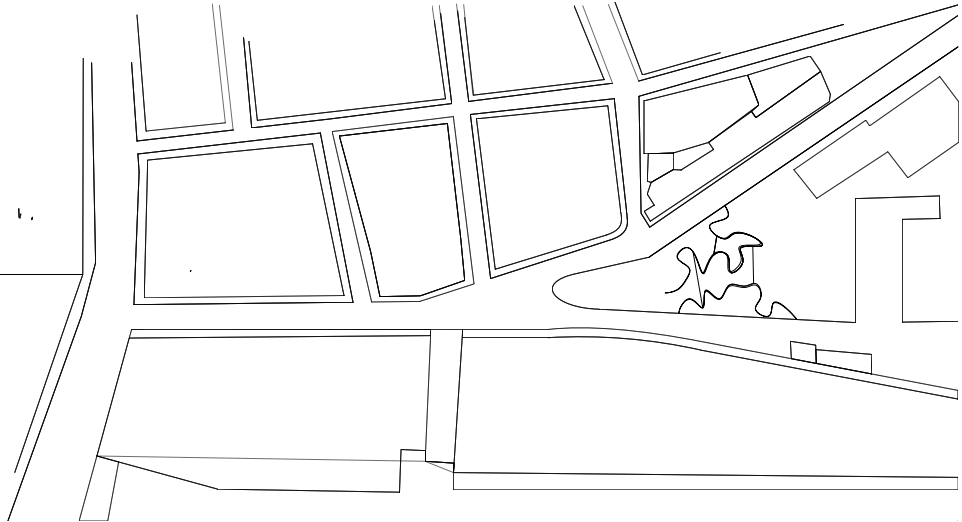


longitudinale section 1/33



urban scale

between the two
commercial aera of
shorditch,
next to the new
train station,
the lighthouse link
them together by
creating
a meeting point.



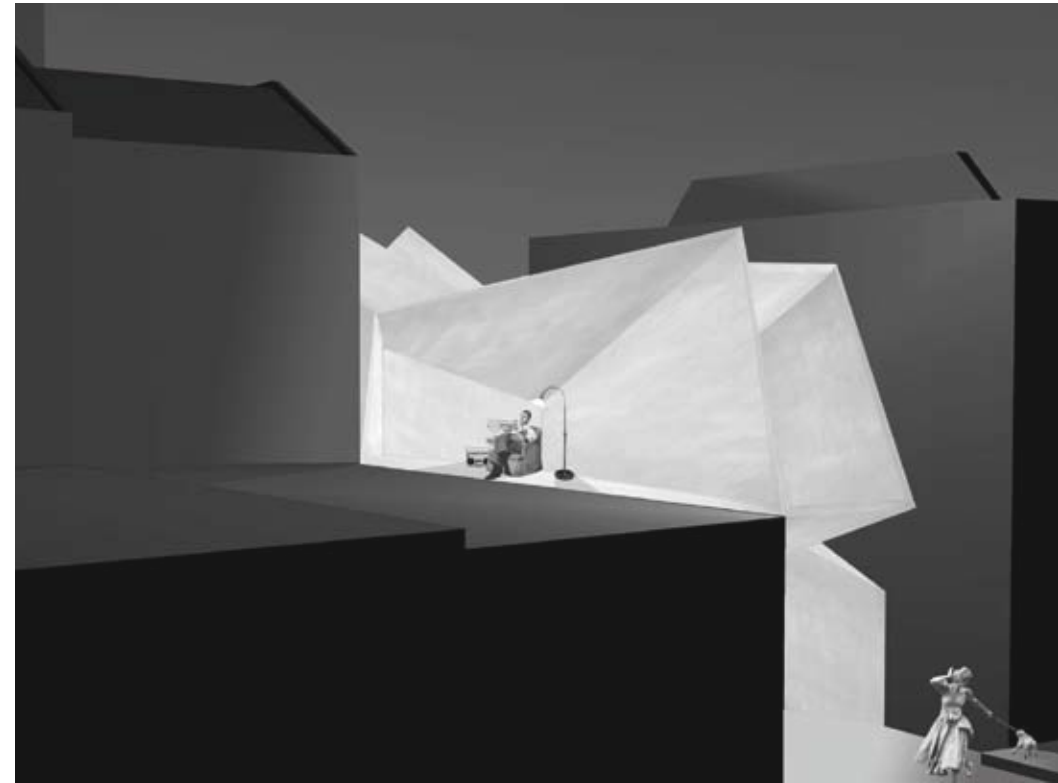
constructive system
metal curves ae hold in space by a system of
poutre en treillis

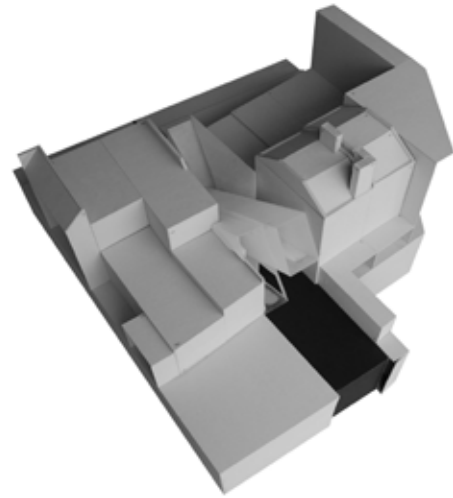




House for Mister T:
A house arranged around
a 24 hours cycle on June
21st experienced by the
inhabitant Mister T. During
the remaining 364 days the
house is rented.

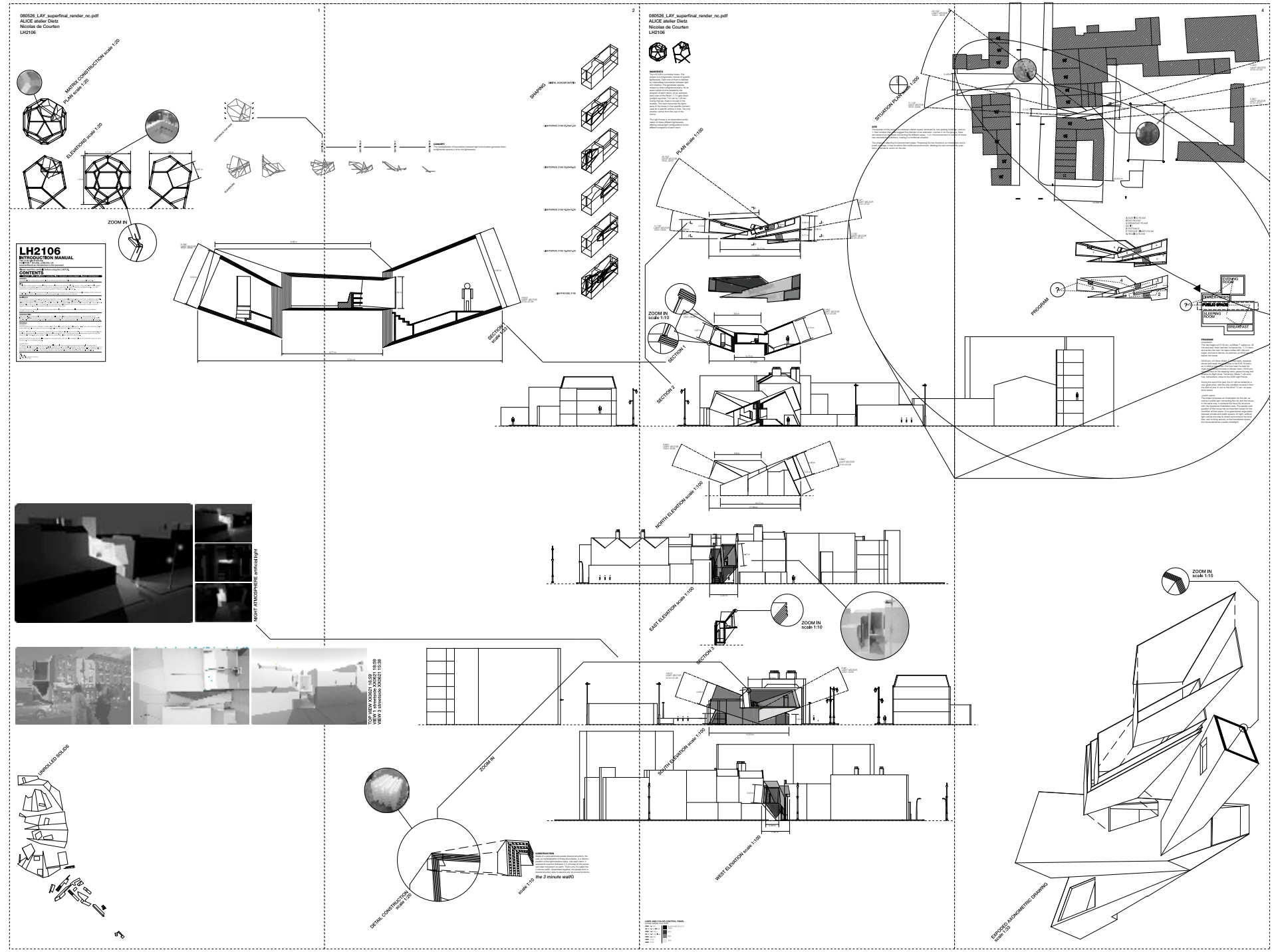
Nicolas de Courten





House for Mister T:
A house arranged around
a 24 hours cycle on June
21st experienced by the
inhabitant Mister T. During
the remaining 364 days the
house is rented.

Nicolas de Courten

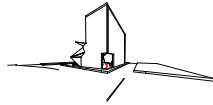




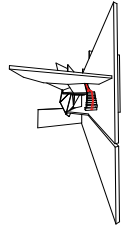
Lighthouse
A project for a night-club, a
child - care and an inhabitation
merged into one structure.
A reinterpretation of the
lighthouse as an urban place of
social encounters.

Thaddée Lucan, Augusta Porok

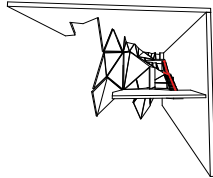
PERSPECTIVES
view of the entrance



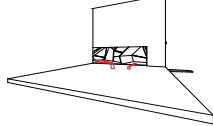
approaching the first floor



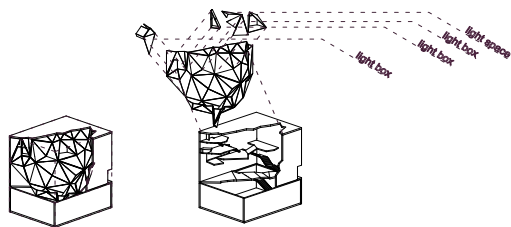
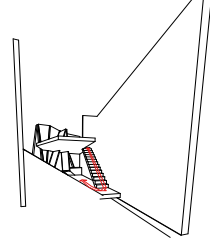
children's playground



view from inside the school

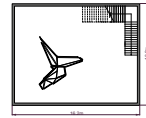


the apartment: first floor

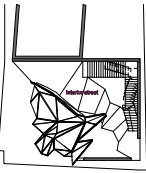


THE CUBE AND ITS LIGHT SPACES

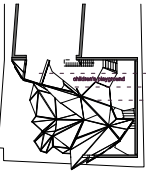
1:100



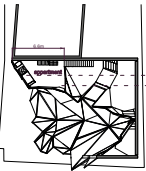
level minus one
area: 187.5 square metres



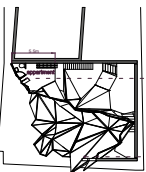
level zero
area: 64 square metres



level one
area: 57 square metres



level two
area: 18.7 square metres



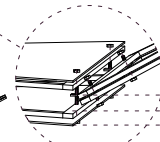
level three
area: 13.5 square metres



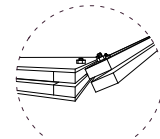
exploded axonometric view



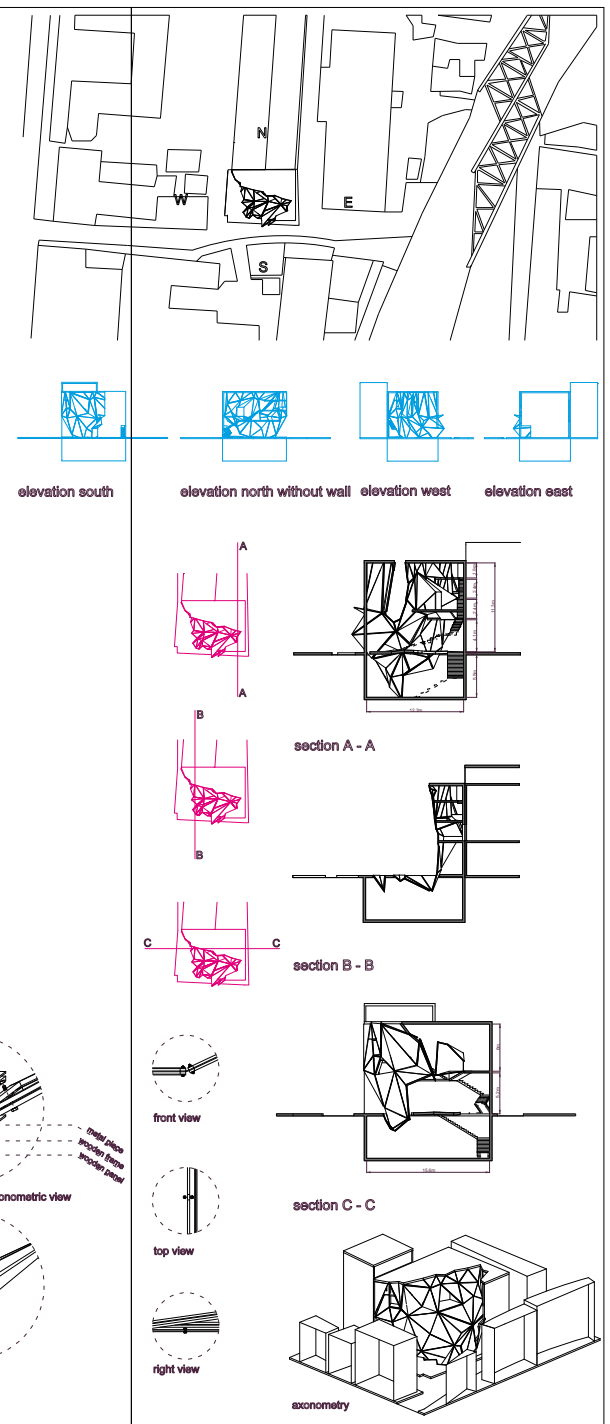
perspective



ZOOM: exploded axonometric view



ZOOM: perspective



team

acknowledgments

alice students 2007/ 2008

Adrien Alberti, Monica Rita Basbouss Moukarzel, Dorette Baumann, Matthias Bellmann, Fatma Ben Amor , Malaïca Cimenti, Esteban Coto Chavarria, Konstantinos Dell'Olive, Nicolas de Courten, Nathalie Egli, Clio Gachoud, Ann-Madlen Gfeller, Andreas Gubler, Axel Harari, Steffan Heath, Sebastian Hefti, Lila Held, Alexander Hertel, Loïc Jacot-Guillarmod, Philipp Jakob, Aurélie Krotoff, Thaddée Lucan, Aurel Martin, Patrick Meier, Auguste Michaud, Mikael Monteserin, Minh-Luc Pham, Edouard Philippe, Augusta Prorok, Bertrand Sauterel, Christopher Tan, Sandro Toniatti, Andrés Tovar Nuez

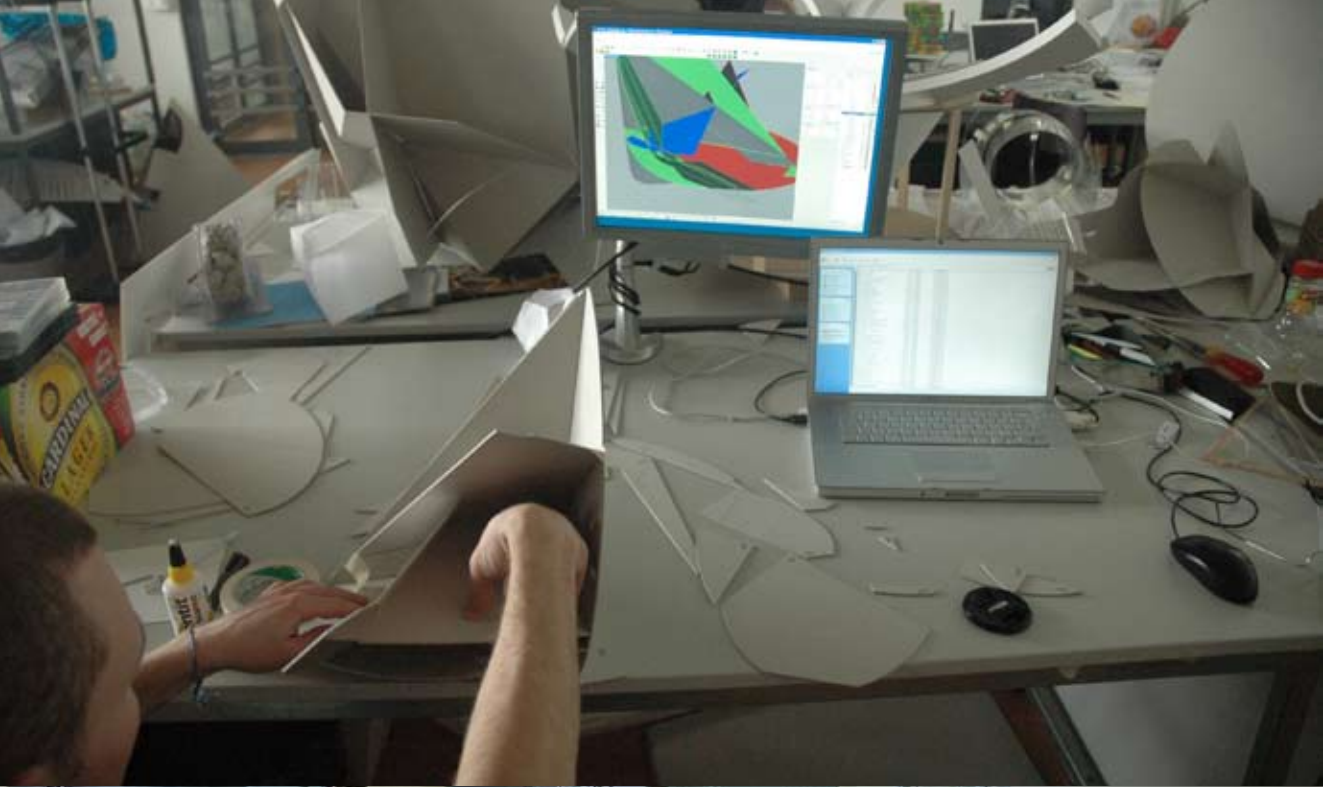
alice team

Dieter Dietz, Eveline Galatis, Olivier Otteavere, Daniel Pokora, Isabella Pasqualini, Katia Ritz, Marc Schmit

many thanks to:

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for their wide spread support and inspiring discussions.



<http://alice.epfl.ch/>

